



0070777-000014.txt  
SEQUENCE LISTING

<110> REGEN Biotech, Inc.  
<120> Use of a peptide that interacts with alpha v beta3 integrin of endothelial cell  
<130> OP04-1024  
<150> KR 10-2003-0021065  
<151> 2003-04-03  
<160> 57  
<170> KopatentIn 1.71  
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<211> 683  
<212> PRT  
<213> Homo sapiens

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Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu  
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Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val  
35 40 45  
Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn  
50 55 60  
Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile  
65 70 75 80  
Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly  
85 90 95  
Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val  
100 105 110  
Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu  
115 120 125  
Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser  
130 135 140  
Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val  
145 150 155 160  
Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val  
165 170 175  
Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr  
180 185 190  
Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly  
195 200 205  
Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala  
210 215 220  
Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr  
225 230 235 240  
Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu  
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245

250

255

Arg	Ala	Ala	Val 260	Ala	Ala	Ser	Gly	Leu 265	Asn	Thr	Met	Leu	Glu 270	Gly	Asn
Gly	Gln	Tyr 275	Thr	Leu	Leu	Ala	Pro 280	Thr	Asn	Glu	Ala	Phe 285	Glu	Lys	Ile
Pro	Ser 290	Glu	Thr	Leu	Asn	Arg 295	Ile	Leu	Gly	Asp	Pro 300	Glu	Ala	Leu	Arg
Asp 305	Leu	Leu	Asn	Asn	His 310	Ile	Leu	Lys	Ser	Ala 315	Met	Cys	Ala	Glu	Ala 320
Ile	Val	Ala	Gly	Leu 325	Ser	Val	Glu	Thr	Leu 330	Glu	Gly	Thr	Thr	Leu 335	Glu
Val	Gly	Cys	Ser 340	Gly	Asp	Met	Leu	Thr 345	Ile	Asn	Gly	Lys	Ala 350	Ile	Ile
Ser	Asn	Lys 355	Asp	Ile	Leu	Ala	Thr 360	Asn	Gly	Val	Ile	His 365	Tyr	Ile	Asp
Glu	Leu 370	Leu	Ile	Pro	Asp	Ser 375	Ala	Lys	Thr	Leu	Phe 380	Glu	Leu	Ala	Ala
Glu 385	Ser	Asp	Val	Ser	Thr 390	Ala	Ile	Asp	Leu	Phe 395	Arg	Gln	Ala	Gly	Leu 400
Gly	Asn	His	Leu	Ser 405	Gly	Ser	Glu	Arg	Leu 410	Thr	Leu	Leu	Ala	Pro 415	Leu
Asn	Ser	Val	Phe 420	Lys	Asp	Gly	Thr	Pro 425	Pro	Ile	Asp	Ala	His 430	Thr	Arg
Asn	Leu	Leu 435	Arg	Asn	His	Ile	Ile 440	Lys	Asp	Gln	Leu	Ala 445	Ser	Lys	Tyr
Leu	Tyr 450	His	Gly	Gln	Thr	Leu 455	Glu	Thr	Leu	Gly	Gly 460	Lys	Lys	Leu	Arg
Val 465	Phe	Val	Tyr	Arg	Asn 470	Ser	Leu	Cys	Ile	Glu 475	Asn	Ser	Cys	Ile	Ala 480
Ala	His	Asp	Lys	Arg 485	Gly	Arg	Tyr	Gly	Thr 490	Leu	Phe	Thr	Met	Asp 495	Arg
Val	Leu	Thr	Pro 500	Pro	Met	Gly	Thr	Val 505	Met	Asp	Val	Leu	Lys 510	Gly	Asp
Asn	Arg	Phe 515	Ser	Met	Leu	Val	Ala 520	Ala	Ile	Gln	Ser	Ala 525	Gly	Leu	Thr
Glu	Thr 530	Leu	Asn	Arg	Glu	Gly 535	Val	Tyr	Thr	Val	Phe 540	Ala	Pro	Thr	Asn
Glu 545	Ala	Phe	Arg	Ala	Leu 550	Pro	Pro	Arg	Glu	Arg 555	Ser	Arg	Leu	Leu	Gly 560
Asp	Ala	Lys	Glu	Leu 565	Ala	Asn	Ile	Leu	Lys 570	Tyr	His	Ile	Gly	Asp 575	Glu
Ile	Leu	Val	Ser 580	Gly	Gly	Ile	Gly	Ala 585	Leu	Val	Arg	Leu	Lys 590	Ser	Leu
Gln	Gly	Asp 595	Lys	Leu	Glu	Val	Ser 600	Leu	Lys	Asn	Asn	Val 605	Val	Ser	Val

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Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val  
 610 615 620  
 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln  
 625 630 635 640  
 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln  
 645 650 655  
 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro  
 660 665 670  
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 <213> Homo sapiens

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 Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val Leu  
 35 40 45  
 Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln Asn  
 50 55 60  
 Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly Ile Val Thr Val Asn  
 65 70 75 80  
 Cys Ala Arg Leu Leu Lys Ala Asp His His Ala Thr Asn Gly Val Val  
 85 90 95  
 His Leu Ile Asp Lys Val Ile  
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 Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn Gly  
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 Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile Pro  
 35 40 45  
 Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg Asp  
 50 55 60  
 Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala Ile  
 65 70 75 80  
 Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val  
 85 90 95

Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile Ser  
 100 105 110  
 Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp Glu  
 115 120 125  
 Leu Leu Ile  
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<210> 4  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

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 Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala Glu Ser Asp Val  
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 Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu Gly Asn His Leu  
 20 25 30  
 Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu Asn Ser Val Phe  
 35 40 45  
 Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg Asn Leu Leu Arg  
 50 55 60  
 Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly  
 65 70 75 80  
 Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr  
 85 90 95  
 Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala Ala His Asp Lys  
 100 105 110  
 Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro  
 115 120 125  
 Pro

<210> 5  
 <211> 131  
 <212> PRT  
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<400> 5  
 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met  
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 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg  
 20 25 30  
 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala  
 35 40 45  
 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu  
 50 55 60  
 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly  
 65 70 75 80  
 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu  
 85 90 95

Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val  
 100 105 110  
 Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr  
 115 120 125  
 Asn Val Leu  
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<210> 6  
 <211> 85  
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<400> 6  
 Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys  
 1 5 10 15  
 Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val  
 20 25 30  
 Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp  
 35 40 45  
 Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu  
 50 55 60  
 Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val  
 65 70 75 80  
 Ile Thr Asn Val Leu  
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<210> 7  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 7  
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 20 25 30  
 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala  
 35 40 45  
 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu  
 50 55 60  
 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly  
 65 70 75 80  
 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu  
 85 90 95  
 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val  
 100 105 110  
 Ala Glu Pro Asp Ile Met Ala  
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<212> PRT  
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 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met  
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 20 25 30  
 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala  
 35 40 45  
 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu  
 50 55 60  
 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly  
 65 70 75 80  
 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu  
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 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val  
 100 105 110

Ala

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 <213> Homo sapiens

<400> 9  
 Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys  
 1 5 10 15  
 Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val  
 20 25 30  
 Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp  
 35 40 45  
 Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu  
 50 55 60  
 Pro Val Ala Glu Pro Asp Ile Met Ala  
 65 70

<210> 10  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 10  
 Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys  
 1 5 10 15  
 Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val  
 20 25 30  
 Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp  
 35 40 45  
 Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu  
 50 55 60

Pro Val Ala  
65

<210> 11  
<211> 18  
<212> PRT  
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<220>  
<223> D-IV-AA(18)

<400> 11  
Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ile Gly Asp Glu Ile Leu  
1 5 10 15

Val Ser

<210> 12  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> D-IV-L(18)

<400> 12  
Lys Glu Ser Ala Asn Ser Ser Lys Tyr His Ile Gly Asp Glu Ile Leu  
1 5 10 15

Val Ser

<210> 13  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> D-IV-R(18)

<400> 13  
Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ser Gly Asp Glu Ser Ser  
1 5 10 15

Val Ser

<210> 14  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> D-IV-LYHR(18)

<400> 14  
Lys Glu Ser Ala Asn Ser Ser Lys Tyr His Ser Gly Asp Glu Ser Ser  
1 5 10 15

val Ser

<210> 15  
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 <212> PRT  
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<220>  
 <223> D-IV-LAA(18)

<400> 15  
 Lys Glu Ser Ala Asn Ser Ser Lys Ala Ala Ile Gly Asp Glu Ile Leu  
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val Ser

<210> 16  
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 <212> PRT  
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<400> 16  
 Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ser Gly Asp Glu Ser Ser  
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val Ser

<210> 17  
 <211> 29  
 <212> PRT  
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<220>  
 <223> D-IV-AA

<400> 17  
 Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ile Gly Asp  
 1 5 10 15

Glu Ile Leu val Ser Gly Gly Ile Gly Ala Leu val Arg  
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<210> 18  
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 <212> PRT  
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<220>  
 <223> D-IV-L

<400> 18  
 Gly Asp Ala Lys Glu Ser Ala Asn Ser Ser Lys Tyr His Ile Gly Asp  
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Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg  
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 <212> PRT  
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<400> 19  
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<210> 20  
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 <212> PRT  
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<400> 20  
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Glu Ser Ser Val Ser Gly Gly Ile Gly Ala Leu Val Arg  
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<210> 21  
 <211> 29  
 <212> PRT  
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<220>  
 <223> D-IV-LAA

<400> 21  
 Gly Asp Ala Lys Glu Ser Ala Asn Ser Ser Lys Ala Ala Ile Gly Asp  
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Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg  
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<210> 22  
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<400> 22  
 Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ser Gly Asp  
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Glu Ser Ser Val Ser Gly Gly Ile Gly Ala Leu Val Arg  
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<210> 23  
 <211> 18  
 <212> PRT  
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<220>  
 <223> D-I YH18

<400> 23  
 Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val  
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Leu Thr

<210> 24  
 <211> 18  
 <212> PRT  
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<400> 24  
 Glu Ala Leu Arg Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met  
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Cys Ala

<210> 25  
 <211> 18  
 <212> PRT  
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<220>  
 <223> D-III YH18

<400> 25  
 Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly Gln Thr Leu Glu Thr  
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Leu Gly

<210> 26  
 <211> 18  
 <212> PRT  
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<220>  
 <223> D-IV YH18

<400> 26  
 Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu  
 1 5 10 15

Val Ser

<210> 27  
 <211> 18  
 <212> PRT  
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<220>  
 <223> YH18-con.

<400> 27  
 Lys Glu Leu Ala Asn Ile His Gly Ile Lys Leu Tyr Asp Glu Ile Leu  
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Val Ser

<210> 28  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> BIGH3\_HUMAN

<400> 28  
 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val  
 1 5 10 15

Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr  
 20 25 30

<210> 29  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> BIGH3-PIG

<400> 29  
 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val  
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Asp Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Ala  
 20 25 30

<210> 30  
 <211> 30  
 <212> PRT  
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<220>  
 <223> BIGH3\_CHICK

<400> 30  
 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val  
 1 5 10 15

Asn Lys Arg Val Leu Thr Asp Asp Leu Lys His Gly Thr Thr  
 20 25 30

<210> 31  
 <211> 30  
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<220>  
 <223> OSF2\_MOUSE

<400> 31  
 Asn Asn Val Asn Val Glu Leu Leu Asn Ala Leu His Ser His Met Val  
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 Asn Lys Arg Met Leu Thr Lys Asp Leu Lys His Gly Met Val  
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 <211> 29  
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 <223> BIGH3\_HUMAN

<400> 32  
 Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn Asn His Ile Leu Lys  
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<210> 33  
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<220>  
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<400> 33  
 Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn Asn His Ile Leu Lys  
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<210> 34  
 <211> 29  
 <212> PRT  
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<220> /  
 <223> OSF2\_HUMAN

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 Gly Asp Lys Val Ala Ser Glu Ala Leu Met Lys Tyr His Ile Leu Asn  
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 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> OSF2\_MOUSE

<400> 36  
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 Thr Leu Gln Cys Ser Glu Ala Ile Thr Gly Gly Ala Val  
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<210> 37  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> BIGH3\_HUMAN

<400> 37  
 Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp  
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<400> 38  
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 1 5 10 15  
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<210> 39  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<400> 39  
 Gly Asn Ala Lys Glu Leu Ala Ser Ile Leu Lys Phe His Met Ala Asp  
 1 5 10 15  
 Glu Ile Leu Val Ser Gly Ala Val Ser Ala Leu Val Arg  
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<210> 40  
 <211> 29  
 <212> PRT  
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<220>  
 <223> SLL1735 homolog

<400> 40  
 Gln Asn Pro Pro Gln Leu Ala Arg Ile Leu Thr Tyr His Val Ala Ala  
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 Gly Arg Leu Thr Lys Asp Asp Leu Ile Lys Leu Gly Glu  
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<210> 41  
 <211> 29  
 <212> PRT  
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<220>  
 <223> SLL1735

<400> 41  
 Gln Asn Ile Pro Gln Leu Ala Arg Ile Leu Thr Tyr His Val Val Ala  
 1 5 10 15  
 Gly Lys Phe Thr Gln Ala Asp Leu Cys Arg Leu Ser Thr  
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<210> 42  
 <211> 29  
 <212> PRT  
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<220>  
 <223> SLL1483

<400> 42  
 Pro Glu Asn Lys Asp Lys Leu Val Lys Ile Leu Thr Tyr His Val Val  
 1 5 10 15  
 Pro Gly Lys Ile Thr Ala Ala Gln Val Gln Ser Gly Glu  
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<210> 43  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> OSF2\_HUMAN

<400> 43  
 Arg Asp Lys Asn Ala Leu Gln Asn Ile Ile Leu Tyr His Leu Thr Pro  
 1 5 10 15  
 Gly val Phe Ile Gly Lys Gly Phe Glu Pro Gly Val Thr  
 20 25

<210> 44  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> OSF2\_MOUSE

<400> 44  
 Gly Asp Lys Asn Ala Leu Gln Asn Ile Ile Leu Tyr His Leu Thr Pro  
 1 5 10 15  
 Gly val Tyr Ile Gly Lys Gly Phe Glu Pro Gly Val Thr  
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<210> 45  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> MP83 MYCTU

<400> 45  
 Thr Asp Ala Lys Leu Leu Ser Ser Ile Leu Thr Tyr His Val Ile Ala  
 1 5 10 15  
 Gly Gln Ala Ser Pro Ser Arg Ile Asp Gly Thr  
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<210> 46  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> MPT83

<400> 46  
 Thr Asp Ala Lys Leu Leu Ser Ser Ile Leu Thr Tyr His Val Ile Ala  
 1 5 10 15  
 Gly Gln Ala Ser Pro Ser Arg Ile Asp Gly Thr  
 20 25

<210> 47  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Q48948\_MYCBO

<400> 47  
 Thr Asn Ser Ser Leu Leu Thr Ser Ile Leu Thr Tyr His Val Val Ala  
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 Gly Gln Thr Ser Pro Ala Asn Val Val Gly Thr  
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<210> 48  
 <211> 27  
 <212> PRT  
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<220>  
 <223> Q50769\_MYCTU

<400> 48  
 Thr Asn Ser Ser Leu Leu Thr Ser Ile Leu Thr Tyr His Val Val Ala  
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 Gly Gln Thr Ser Pro Ala Asn Val Val Gly Thr  
 20 25

<210> 49  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Putative Secreted protein

<400> 49  
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 His Lys Lys Ile Thr Lys Ala Gln Leu Pro His Gly Thr  
 20 25

<210> 50  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Fasciclin

<400> 50  
 Glu Gly Arg Gly Cys Ala Ser Asn Ile Leu Lys Asn His Leu Leu Asp  
 1 5 10 15  
 Leu Thr Phe Cys Ser Leu Ala Thr Val Pro Gly Ala Lys  
 20 25



<210> 51  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> HLC-32

<400> 51  
 Lys Asp Pro Ala Gly Lys Leu Arg Asn Leu Leu Lys Tyr His Val Ile  
 1 5 10 15  
 Ser Asp Val Lys Tyr Ser Val Ser Leu Ser Ser Gly Gln Arg  
 20 25 30

<210> 52  
 <211> 29  
 <212> PRT  
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<220>  
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<400> 52  
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 Tyr Leu Tyr His Gly Gln Thr Leu Asp Thr Leu Gly Gly Lys Lys Leu  
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Glu Leu Tyr Asn Gly Gln Ile Leu Glu Thr Ile Gly Gly Lys Gln Leu  
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Arg

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<220>  
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<400> 57  
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Asp Leu Tyr Asn Gly Gln Ile Leu Glu Thr Ile Gly Gly Lys Gln Leu  
                   20                  25                  30

Arg